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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/883,635	06/18/2001	Shu Lin	PU010092	2496

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EXAMINER

DUNN, MISHAWN N

ART UNIT PAPER NUMBER

2616

DATE MAILED: 02/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/883,635	LIN ET AL.	
	Examiner	Art Unit	
	Mishawn N. Dunn	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7, 9, 11, 12-18, 20, 22 and 24-26 is/are rejected.
- 7) ☒ Claim(s) 6, 8, 10, 19 and 21 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. The examiner withdraws the rejection under the second paragraph of 35 U.S.C. 112 based on Applicant's amendment to more clearly recite the terms dummy and repeat pictures.
2. Applicant's arguments, see page 8, filed 01/06/2006, with respect to the rejection(s) of claim(s) 1 and 14 under 35 USC 102(e) as being unpatentable over Eerenberg et al. (US Pat. No. 6,621,979) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of different interpretation of the previously applied reference. The examiner did not realize that the modified video was re-recorded in the same space as the original video. Newly found prior art reference(s) have been submitted.

Claim Rejections - 35 USC § 102

b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Kwon (US Pat. No. 5,418,658).
4. Consider claim 1. Kwon teaches that in a rewritable storage medium (col. 4, lines 11-14), a method for changing a playback speed of a selected video segment having a progressive frame structure which has been recorded on a portion of said storage medium (fig. 1) comprising the steps of: modifying said selected video segment for a

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changed playback speed (col. 3, lines 42-45); and recording said modified video segment exclusively on said portion of said medium (col. 4, lines 15-35).

5. System claim 14 is rejected for the same reason as discussed in the corresponding method claim above.

Claim Rejections - 35 USC § 103

6. Claims 1-5, 7, 9, 11, 14-18, 20, 22, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eerenberg et al. (US Pat. No. 6,621,979) in view of Kwon (US Pat. No. 5,418,658).

7. Consider claim 1. Eerenberg et al. teaches that in a rewritable storage medium, a method for changing a playback speed of a video segment has been recorded on a portion of said storage medium. Eerenberg et al. does not disclose that the method for changing a playback speed is for a selected segment, nor the modified video segment is recorded exclusively on said portion of said medium.

However, Kwon teaches that in a rewritable storage medium (col. 4, lines 11-14), a method for changing a playback speed of a selected video segment having a progressive frame structure which has been recorded on a portion of said storage medium (fig. 1) comprising the steps of: modifying said selected video segment for a changed playback speed (col. 3, lines 42-45); and recording said modified video segment exclusively on said portion of said medium (col. 4, lines 15-35).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to use, to modify Eerenberg et al. by changing a playback

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speed is for a selected segment which has been recorded on a portion of said storage medium and recording said modified video segment exclusively on said portion of said medium, as taught by Kwon, in order to provide the user with permanent editing and enhanced quality of edited video.

8. Consider claim 2. Eerenberg et al. and Kwon teach the claimed limitations as stated. Eerenberg et al. further teaches the step of deleting a plurality of non-video packs (col. 20, lines 27-30) in said selected video segment to reduce an amount of data contained in said modified video segment (col. 20, lines 25-26).

9. Consider claim 3. Eerenberg et al. and Kwon teach the claimed limitations as stated. Eerenberg et al. further teaches the step of reducing a resolution of at least one frame (col. 9, lines 49-50) contained in said modified video segment.

10. Consider claim 4. Eerenberg et al. and Kwon teach the claimed limitations as stated. Eerenberg et al. further teaches the step of lowering a bit rate of said modified video segment during said recording step (col. 10, lines 51-60).

11. Consider claim 5. Eerenberg et al. and Kwon teach the claimed limitations as stated. Eerenberg et al. further teaches that the video segment is comprised of intra and non-intra frames and said modification comprises the step of decoding each said intra frame and selectively decoding at least one said non-intra frame (col. 23, lines 60-64; col. 24, lines 14-19).

12. Consider claim 7. Eerenberg et al. and Kwon teach the claimed limitations as stated. Eerenberg et al. further teaches that the number of said dummy pictures and

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said repeat pictures inserted into said selected video segment is based on said changed playback speed (col. 7, lines 17-53; figs. 5, 6, and 7).

13. Consider claim 9. Eerenberg et al. and Kwon teach the claimed limitations as stated. Eerenberg et al. further teaches that the video segment is comprised of intra and non-intra frames and said modification comprises the step of decoding all said intra frame and said non-intra frames (col. 23, lines 60-64; col. 24, lines 14-19).

14. Consider claim 11. Eerenberg et al. and Kwon teach the claimed limitations as stated. Eerenberg et al. further teaches that the number of said dummy pictures and said repeat pictures inserted into said selected video segment is based on said changed playback speed (col. 7, lines 17-53; figs. 5, 6, and 7).

15. System claims 14-18, 20, 22 and 24 are rejected for the same reasons as discussed in the corresponding method claims above.

16. Claims 12, 13, 25, and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eerenberg et al. (US Pat. No. 6621979) in view of Kwon (US Pat. No. 5,418,658) in further view of Takeuchi et al. (US Pub. No. 20020028061).

17. Consider claim 12. Eerenberg et al. and Kwon teach the claimed limitations as stated, except said video segment is comprised of intra and non-intra frames and said modification comprises the step of removing at least one frame from the group consisting of said intra and non-intra frames.

18. Consider claim 13. Eerenberg et al. and Kwon teach the claimed limitations as stated, except said video segment is comprised of intra and non-intra frames and said

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modification comprises the steps of: decoding said intra and non-intra frames; and removing at least one field from at least one of said intra and non-intra frames.

However, Takeuchi et al. teaches a video segment comprised of intra and non-intra frames with the step of removing at least one frame from the group (pg. 2, para. 0052) consisting of said intra and non-intra frames (fig. 1). Takeuchi et al. also teaches a video segment comprised of intra and non-intra frames and said modification comprises the step of decoding said intra and non-intra frames (pg. 10, para. 0218-0219; fig 23).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to use, to modify Eerenberg et al. by decoding intra and non-intra frames and removing at least one frame from the group consisting of said intra and non-intra frames in order to achieve the optimum fast-forward playback speed.

System claims 25 and 26 are rejected for the same reasons as discussed in the corresponding method claims above.

Allowable Subject Matter

19. Claims 6, 8, 10, 19, 21, and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mishawn N. Dunn whose telephone number is 571-272-7635. The examiner can normally be reached on Monday - Friday 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mishawn Dunn
February 10, 2006


ROBERT CHAHINE
PATENT EXAMINER